Town of Smithfield
Cary Street Elevated Tank
(70,000 Gallons)

Year 1	Cost/Task
Tank Interior	
1) Remove the interior shell ladder and cone rungs and plug weld any resulting holes. Install a new OSHA compliant ladder and solid rail safety climb system.	$
2) Replace the painter's temporary rigging openings in the roof panels with threaded couplings and seal weld inside & out. Epoxy caulk the interior weld seams.	$
3) Groove weld all the roof plate butt joints.	$
4) Install a new external overflow pipe and interior weir box.	$
5) Install and seal weld a ¼-inch plate, four inches high by 360 degrees to the shell/roof rim angle and roof plates.	$
6) Repair tank interior coating as necessary due to improvements.	$
7) Washout interior using 4,000 psi pressure washer to remove accumulated mud and sediment. Disinfect interior using AWWA Disinfection Method #2, spray method.	$
Cost of All Tank Interior Tasks	**$**
Tank Exterior	
1) Remove and replace the existing roof grab rail with a new OSHA compliant handrail. Install a new swing gate at the new ladder step opening in the new roof handrail.	$
2) Remove existing roof access brackets and plug weld any resulting holes.	$
3) Install a new roof ladder with safety device compliant with OSHA regulations.	$
4) Remove the existing shell ladder and tower access ladder and install a new single ladder system compliant with OSHA regulations. Reinstall the solid cover gate over the lower eight feet of the new ladder. Plug weld any resulting holes.	$
5) Remove the existing safety climb cable system and reinstall after the new ladder system is in place.	$
6) Install a ladder safety climb device and add the necessary length of solid rail section required to meet the new height requirements of 54 inches above the roof/shell juncture.	$
7) Repair tank exterior coating as necessary due to improvements.	$
8) Install new support brackets on a support column and the corresponding shell for the existing antenna cables. Relocate the antenna, support mounts, and coaxial cables. Coordinate antenna installation with service provider. Touchup coatings.	$
Cost of All Tank Exterior Tasks	**$**

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Total Cost for Year 1	**$**

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Year 2	Cost/Task
Tank Exterior	
1) Install cover plates over present vent openings.	$
2) Install new AWWA compliant freeze-resistant roof vent.	$
3) Install an overflow pipe screen retainer and screen meeting VDH regulations. Install a concrete splash pad under the overflow pipe outlet.	$
4) Repair tank exterior coating as necessary due to improvements.	$
Total Cost for Year 2	**$**

Year 3	Cost/Task	Cost/Task (assuming lead abatement req'd)
1) Repaint Exterior		
a) Abrasive blast all exterior metal surfaces to bare metal in accordance with SSPC-SP6 "Commercial Blast Cleaning." All mill scale and rust shall be removed after blast cleaning, all surfaces shall be thoroughly cleaned of any residue or dust before application of prime coat.		
b) Apply a full prime coat of zinc-rich primer at 2.5 to 4.0 mils dry film thickness.		
c) Apply an epoxy intermediate coat at 2.0 to 3.0 mils dry film thickness.		
d) Apply a urethane finish coat at 2.0 to 3.0 mils dry film thickness.		
e) Total DFT: Minimum 6.5 mils		
Cost to Repaint Exterior	**$**	**$**
2) Repaint Interior		
a) Abrasive blast all interior metal surfaces to bare metal in accordance with SSPC-SP10 "Near White Blast Cleaning." All mill scale and rust shall be removed after blast cleaning, all surfaces shall be thoroughly cleaned of any residue or dust before application of prime coat.		
b) Apply a full prime coat of epoxy that is NSF approved for contact with potable water at 3.0 to 5.0 mils dry film thickness.		
c) Apply a full intermediate coat of epoxy that is NSF approved for contact with potable water at 4.0 to 6.0 mils dry film thickness.		

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d) Apply a full finish coat of epoxy that is NSF approved for contact with potable water at 4.0 to 6.0 mils dry film thickness.		
e) Total DFT: Minimum 12.0 mils		
f) Disinfect interior using AWWA Disinfection Method #2, spray method.		
g) Test the spent abrasive blast debris per TCLP-(8) Heavy Metals.		
h) Dispose of abrasive blast debris in accordance with Federal, State, and Local regulations.		
Cost to Repaint Interior	**$**	**$**
Total Cost for Year 3	**$**	**$**

Year 4	Cost/Task
1) Anniversary inspection of coatings.	$
2) Repairs uncovered through inspection.	$
Total Cost for Year 4	**$**

Year 5	Cost/Task
1) Visual external inspection of coatings, structural components and compliance with OSHA regulations.	$
2) Repairs uncovered through inspection	$
Total Cost for Year 5	**$**

Year 6	Cost/Task
1) Washout Inspection Service	
a) Washout interior using 4,000 psi pressure washer to remove accumulated mud and sediment.	
b) Inspect the tank.	
c) Disinfect interior using AWWA Disinfection Method #2, spray method.	
d) Perform needed repairs/touchup.	
e) Provide inspection report.	
Total Cost for Year 6	**$**

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Year 7	Cost/Task
1) Visual external inspection of coatings, structural components, and compliance with OSHA regulations.	$
2) Repairs uncovered through inspection.	$
Total Cost for Year 7	**$**

Year 8	Cost/Task
1) Visual external inspection of coatings, structural components, and compliance with OSHA regulations.	$
2) Repairs uncovered through inspection.	$
Total Cost for Year 8	**$**

NOTE: The Town may decide to eliminate the Cary Street Tank due to its age and condition.